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=> S LAMINATE
         74410 LAMINATE
         55891 LAMINATES
L1       91605 LAMINATE
                 (LAMINATE OR LAMINATES)

=> S FIBERBOARD OR FIBREBOARD
          3272 FIBERBOARD
          2725 FIBERBOARDS
          3952 FIBERBOARD
                 (FIBERBOARD OR FIBERBOARDS)
            49 FIBREBOARD
             4 FIBREBOARDS
            52 FIBREBOARD
                 (FIBREBOARD OR FIBREBOARDS)
L2        3994 FIBERBOARD OR FIBREBOARD

=> S POLYETHYELENE OR POLYPROPYLENE
            87 POLYETHYELENE
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             1 POLYETHYELENES
            88 POLYETHYELENE
               (POLYETHYELENE OR POLYETHYELENES)
        131127 POLYPROPYLENE
          1760 POLYPROPYLENES
        131318 POLYPROPYLENE
               (POLYPROPYLENE OR POLYPROPYLENES)
L3      131396 POLYETHYELENE OR POLYPROPYLENE

=> S L1 AND L2 AND L3
L4           34 L1 AND L2 AND L3

=> D 1-34 BIB,ABS

L4   ANSWER 1 OF 34  CAPLUS  COPYRIGHT 2002 ACS
AN   2002:514493  CAPLUS
DN   137:79930
TI   Reactive hot-melt polyurethane adhesives and manufacture of wood
     decorative materials
IN   Ezaki, Akihiko; Kawaguchi, Tadayuki; Hama, Shinjiro; Kakuta, Shohei
PA   Nippon Polyurethane Industry Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 9 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   JP 2002194318      A2   20020710       JP 2000-396418   20001227
AB   The adhesives comprise isocyanate-terminated urethane prepolymers manufd.
     from (A) polymer polyols contg. cryst. polyols having Mn of 2000-10,000
     and noncryst. polyols having Mn of 300-800 at wt. ratio of 90/10-40/60 and
     (B) org. polyisocyanates.  Thus, an adhesive manufd. from
     1,6-hexanediol-adipic acid copolymer diol (Mn 5000) 660, isophthalic
     acid-terephthalic acid-ethylene glycol-neopentyl glycol copolymer diol (Mn
     500) 165, and MDI 262 kg showed viscosity increase <50% after melting at
     120.degree. and storage for 8 h.  Then, a medium-d. fiberboard
     was hot-pressed with a polypropylene sheet having a wood grain
     pattern via the adhesive to give a test piece showing 180.degree. peeling
     strength 1.8 and 2.3 kN/m after storage for 10 min and 24 h, resp. and
     good water resistance.

L4   ANSWER 2 OF 34  CAPLUS  COPYRIGHT 2002 ACS
AN   2002:377830  CAPLUS
DN   136:370813
TI   Decorative paper sheet having ionizing radiation-curable resin surface
     layer and decorative material using the sheet
IN   Yokochi, Eiichiro; Takeuchi, Hajime
PA   Dainippon Printing Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 8 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   JP 2002144490      A2   20020521       JP 2000-350913   20001117
AB   The sheet consists of an ionizing radiation-cured crosslinked resin
     surface layer, a paper support, and an elastic resin layer having tensile
     strength (JIS K 6301) .gtoreq.40 MPa, which are laminated in this order
     from the front side.  The sheet shows retention of mech. strength even if
     the paper is damaged in ionizing radiation irradn. in curing of the
     surface layer.  The sheet is applied on a substrate by using an adhesive
     to give the decorative material.  Thus, a paper support was
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gravure-printed with a polyester-polyol (tensile strength 40 MPa) on 1 side, gravure-printed on the other side to form a pattern, overcoated with a mixt. of polyester acrylate 60, trimethylolpropane triacrylate 10, 1,6-hexanediol diacrylate 29, and siloxane acrylate 1 part on the pattern layer, and electron beam-irradiated on the overcoating layer to give the decorative sheet, which was applied on a medium-d. **fiberboard** through an adhesive to give decorative material showing folding endurance in machine direction and cross direction.

L4 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2002:343519 CAPLUS
DN 136:342431
TI Molded board made of wooden fiber mixture bound by thermoplastic resin and manufacture of the board
IN Matsuo, Tetsuya; Ito, Kyoichi
PA Nichiha Corporation, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002127114	A2	20020508	JP 2000-327066	20001026

AB The board is that manufd. from a mixt. of comprising a wooden fiber, a long vegetable fiber, and thermoplastic resin fiber by (1) heat compressing at a temp. higher than the m.p. of the thermoplastic resin so that the wooden fiber and the vegetable fiber are bound by the melted thermoplastic resin and (2) laminating of fiber sheets having m.p. higher than the m.p. of the thermoplastic resin on the both side surfaces. The board is manufd. by the process involving needle punching of the above fiber mixt., laminating of the fiber sheets on the both sides of the resulting mat, and compressing of the **laminate** under a temp. higher than the m.p. of the thermoplastic resin and lower than that of the fiber sheets. The board is manufd. by the process without releasing toxic gas or malodor. Thus, a needle-punched mat comprising pulp 3, flax 47, and **polypropylene** fiber 50% was sandwiched between polyester nonwoven fabrics and hot pressed at 210.degree. for 40 s to give the board, which was sandwiched between 2 plates and cold-pressed to give a board for an automobile door trim panel.

L4 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2002:301679 CAPLUS
DN 136:326611
TI Antifungal waterproofing polyolefin decorative sheets
IN Sendai, Hisami
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002120331	A2	20020423	JP 2000-313204	20001013

AB The decorative sheet, useful for bathrooms , kitchens, etc., comprises a non-transparent polyolefin base layer, a decorative layer, and a transparent polyolefin layer contg. thiazolines or thiazolines and zinc oxide as an antifungal agent. Thus, a base sheet comprising high-d. **polypropylene** (I) and butadiene-styrene rubber (II) was printed on the surface, laminated with a transparent layer comprising I, II, and octylthiazoline, embossed, over-coated with an ink contg. octylthiazoline, and further laminated with a steel plate to give a decorative board for a bathroom wall showing good antimold properties even after a surface

abrasion test.

L4 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2002:204851 CAPLUS
DN 136:233307
TI Embossed polyolefin laminated decorative sheets with high surface hardness
IN Nakai, Yasuo
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002079629	A2	20020319	JP 2000-270944	20000907

AB The sheets, useful for substitutes for PVC-based sheets, have lower thermoplastic polyolefin layers, upper cryst. polyolefin layers, and surface protective layers manufd. from ionizable radiation-curable resins. Thus, a **laminate** contg. a lower layer contg. ethylene-propylene-butene rubber, an upper layer contg. cryst. **polypropylene**, and a surface protective layer comprising electron beam-cured acrylic polyurethane was embossed to give a decorative sheet for floor. The decorative sheet was laminated with a medium-d. **fiberboard** to give a test piece showing pencil hardness F.

L4 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2001:843623 CAPLUS
DN 135:372775
TI Decorative sheet-laminated ligneous plates having natural wood-like appearances
IN Takahashi, Hiroaki; Nishino, Yoshikazu
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001322223	A2	20011120	JP 2000-145016	20000517

AB The decorative plate comprises (A) a ligneous substrate with grainings on the surface laminated thereon, via (B) a layer of a transparent adhesive which show vol. shrinkage on caking or curing, with (C) a decorative sheet consisting of (c1) a primer of a transparent polyol-isocyanate system 2-pot polyurethane adhesive, (c2) a transparent thermoplastic resin layer, and (c3) a transparent gloss-controlling layer of a polyol-isocyanate system 2-pot polyurethane adhesive. The decorative sheet has conformity to dents of the grainings and the layer c3 is recessed corresponding to the dents of grainings. Thus, a transparent biaxially oriented **polypropylene** film (OPP) was primed with an acrylic polyol-HDI system polyurethane adhesive and applied with a 2-pot curable vinyl acetate resin-based adhesive (BA 10) on the back side successively. The surface of OPP was applied with a gloss-controlling coating contg. an acrylic polyol, HDI, and SiO2. The obtained decorative sheet was placed on an oak sliced veneer plate/medium-d. **fiberboard** laminated substrate and cold pressed to give a decorative plate having good appearance.

L4 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2001:755573 CAPLUS
DN 135:305428
TI Decorative boards for floors with good water resistance and their manufacture

IN Ishida, Seiichi
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001287208	A2	20011016	JP 2000-104009	20000405

AB The boards comprise a plywood layer having tongues and grooves, a medium-d. **fiberboard** (MDF) layer, an adhesive layer, and a surface protective layer-contg. decorative sheet. Grooved are formed between the MDF and surface protective layers, and coated with water-resistant polymers (e.g., polyurethanes).

L4 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2001:463126 CAPLUS
DN 135:62355
TI Recyclable polymer automobile interior parts
IN Suzuki, Miho; Kumagaya, Ikuo
PA Kasai Kogyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001171042	A2	20010626	JP 1999-362139	19991221

AB The parts are manufd. by laminating polyolefin foam pads and polyolefin surface sheets on core boards in this order by high-frequency welding. Thus, a **laminate** comprised sequential layers of a thermoplastic surface sheet contg. EVA, a polyethylene foam contg. EVA, and a hardboard, useful for door trims.

L4 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2001:441173 CAPLUS
DN 135:34192
TI Scratch- and weather-resistant decorative sheets and their laminated materials
IN Tateno, Tomoshi
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001162731	A2	20010619	JP 1999-348702	19991208

AB The sheets are **laminates** consisting of transparent ionomer resin films, colored polyolefin sheets, and design layers in between. Thus, a **polypropylene** sheet contg. isotactic and atactic **polypropylenes** was successively coated with a urethane primer, vinyl chloride-vinyl acetate copolymer-based gravure ink to form grain patterns, and the urethane primer and then laminated with Himilan (ionomer resin) on the primer layer to give a decorative sheet.

L4 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2001:232467 CAPLUS
DN 134:253430
TI Polyolefin laminated decorative sheet with improved peeling strength
IN Kuroda, Seiji

PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001088256	A2	20010403	JP 1999-265639	19990920

AB The sheet for prepn. of decorative sheet of a MDF (medium-d. **fiberboard**) comprises a polyolefin **laminate** having a hardness 30-100 N/mm2 and a surface layer having a thickness 1-6 .mu.m.

L4 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2001:18795 CAPLUS
DN 134:72648
TI Laminated **fiberboards** with good water resistance, processability, and pesticidal property
IN Takase, Hideo; Sawada, Noritoshi
PA Hokushin Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001001312	A2	20010109	JP 1999-175778	19990622

AB The boards, useful for construction materials, are manufd. by laminating wood **fiberboards**, which have a middle d. layer on the surface, on both sides of a plastic foam core layer via adhesives contg. pesticidal preservatives and further laminating sheet materials on at least one side via the adhesives. Thus, a **laminate** comprising a polyurethane foam layer, a **fiberboard** having a surface layer with sp. gr. 0.35-0.8 on both sides, a PET/Al/PET laminated film, a paper/polyethylene/paper laminated sheet, and preservative-contg. adhesives showed good termiticidal and fungicidal properties.

L4 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2000:732894 CAPLUS
DN 133:297408
TI Decorative laminated sheets and materials with no blushing and good moldability
IN Sakamoto, Toru
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000289155	A2	20001017	JP 1999-105041	19990413

AB The decorative sheets, useful for building and automobile interiors, etc., comprise protective sheets having decorative layers dry-laminated with color support sheets contg. 20-40% olefin-based thermoplastic elastomers via adhesive layers and further laminated with adhesive layers. Thus, a polyolefin protective layer printed with an acrylic polyurethane (AP) ink was dry-laminated with a color support sheet contg. 70% atactic **polypropylene** and 30% hydrogenated butadiene-styrene rubber via a polyester-polyurethane adhesive, embossed on the protective layer, coated with an AP ink and a top coating, and coated on the other side with an AP primer layer to give a decorative sheet, which was laminated on a middle-d. **fiberboard** having a concave part via a polyurethane

adhesive layer to give a laminated decorative material with no blushing and good moldability.

L4 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2000:427823 CAPLUS
DN 133:44583
TI Decorative sheet involving PVC layer and polyolefin layer for molding and decorative material using the sheet
IN Sakamoto, Akira
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000177071	A2	20000627	JP 1998-358788	19981217

AB The sheet involves a PVC support and a polyolefin protective layer wherein .gtoreq.1 of the layers are decorated. The decorative material is made of a substrate and the sheet which is laminated on the PVC support side so that the protective layer is on the surface. The substrate may be building or automobile interior, furniture, etc. Thus, a PVC colored opaque sheet was printed to form a decorative layer, which was laminated with a thermoplastic elastomer protective layer comprising **polypropylene** as hard segment and hydrogenated butadiene-styrene rubber as soft segment so that the decorative layer is inside by using a polyester-polyurethane adhesive. Then, the resulting **laminate** was embossed on the protective layer, applying a color ink on the embossed surface, and overcoated to give the decorative material, which was laminated on a medium-d. **fiberboard** (MDF) by vacuum forming to give a test piece showing retention of original surface luster of the decorative material.

L4 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2000:388758 CAPLUS
DN 133:5695
TI Decorative sheet and decorative material made from the same
IN Sakamoto, Akira
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000158605	A2	20000613	JP 1998-336824	19981127
JP 3316749	B2	20020819		

AB The sheet for prepn. of decorative materials with good appearance comprises an acrylic polymer substrate and a polyolefin protective layer. Thus, a sheet for MDF **fiberboard** surface was made from a photogravure-printed acrylic polymer sheet, a polyurethane-polyester adhesive and a surface layer of isotactic **polypropylene** and hydrogenated SBR blend.

L4 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2000:342220 CAPLUS
DN 132:348664
TI Composite structures with good durability and low friction for surface materials
IN Sasao, Akihiro
PA Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000140192	A2	20000523	JP 1998-324189	19981113

AB The structures, useful for artificial skating surface, consist of (a) a substrate with uniform size and cross section having 2 flat surfaces and (b) .gtoreq.1 polymeric layer(s), preferably contg. low friction materials selected from silicone resins and silicone oils, laminated on the flat surface(s) of the substrate. Optionally, the structures are combined together with splines fitted in grooves on the structures. Thus, a polymeric layer comprising polyethylene 98.7877, optical brightener 0.022, antioxidants 0.0599, hydrophobic component 0.2004, UV stabilizers 0.5, antistatic agent 0.1, TiO2 0.33, and inorg. pigment 0.0169% was used to give a structure, showing good skating property.

L4 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 2000:62488 CAPLUS
DN 132:94509
TI Wooden appearance decorative boards
IN Yanagi, Shuji; Uenishi, Nobuaki; Eguchi, Shinichi; Abe, Masanori; Funase, Tadaaki
PA Bridgestone Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000025015	A2	20000125	JP 1998-193401	19980708

AB The title boards, without warping and useful for buildings, automobile interiors, furniture, etc. (no data), comprise a base board (e.g., plywood, **fiberboard**, particleboard), a thermosetting resin- or thermoplastic-impregnated woven or nonwoven fabric (e.g., paper, kraft paper, Rayon paper, glass fibers, vinylon fibers, or polyester fibers impregnated by phenolic resins, epoxy resins, polyurethanes, polyesters, polyethylene, **polypropylene**, polystyrene), and a decorative surface layer, providing the impregnated resin contg. shrink-preventing agents (e.g., rubber, heat stabilizers, reinforcing agents, fireproofing agents, antistatic agents, surfactants).

L4 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1999:716215 CAPLUS
DN 131:323668
TI Water-based adhesives having good heat resistance and thermal shock resistance and their **laminates**
IN Onishi, Isao; Nakamae, Masato; Murakami, Tetsuo
PA Kuraray Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11310764	A2	19991109	JP 1998-222529	19980806
PRAI JP 1998-43069		19980225		

AB The adhesives comprise (A) water-based dispersions of copolymers with Tg -40.degree. to -5.degree. and contg. ethylene (I) and C8-12 carboxylic acid vinyl esters (CVE) as the principle components, where I + CVE .gtoreq.90% and I/CVE = 5/95-50/50, (B) water-based dispersions of

copolymers with Tg -10.degree. to 25.degree. and contg. I and vinyl acetate (II) as the principle components, where I + II .gtoreq.95%, I/II = 5/95-40/60, and (C) tackifiers with softening point 100-150.degree., where solid wt. is A/B = 10/90-95/5, (A + B)/C = 100/5-100/200. **Laminates** of (inorg. reinforcement-contg.) plastics/the adhesive/woody materials are also claimed. The adhesives show excellent adhesion in ordinary environment, under heat, and hot-cold repeating treatment. The **laminates** have min. thermal deformation and edge peeling. Thus, 90 parts 20:75:5 I-VeoVa 10-II copolymer emulsion (stabilizer PVA/nonionic emulsifier, Tg = -25.degree., solid 50%), 10 parts 20:80 I-II copolymer emulsion (stabilizer PVA, Tg 0.degree., solid 55%), and 50 parts a rosin emulsion (Super Ester E 625, softening point 125.degree., solid 50%) were mixed to give an adhesive. A mica-reinforced **polypropylene** sheet was laminated with a MDF (medium d. **fiberboard**) to give test pieces showing no edge peeling after subjecting to thermal shock (3 cycles of 80.degree. for 2 h, -10.degree. for 2 h).

L4 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1999:626114 CAPLUS
DN 131:244764
TI Wood based plate provided with surface and method to provide the surface .
IN Ollila, Timo; Asikainen, Marjaliisa; Juvonen, Arto
PA Schauman Wood Oy, Finland
SO PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9948683	A1	19990930	WO 1999-FI203	19990317
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FI 9800640	A	19990921	FI 1998-640	19980320
	EP 1068074	A1	20010117	EP 1999-908983	19990317
	R: BE, DE, DK, ES, FR, GB, IT, NL, SE				
	JP 2002507503	T2	20020312	JP 2000-537705	19990317
	US 6451444	B1	20020917	US 2000-654411	20000901
PRAI	FI 1998-640	A	19980320		
	WO 1999-FI203	W	19990317		

AB A surfaced wood-based board comprises a substrate made of wood material and a surface layer comprising .gtoreq.1 a thermoplastic layer, e.g., a polyamide film which is glued to the surface of the substrate by a reactive adhesive layer. The adhesive layer is based on phenolic resin, polyester resin, epoxy resin, isocyanate adhesive or polyurethane adhesive, and it is an adhesive film impregnated with reactive adhesive, such as an impregnated paper. A surfaced board is produced by hot-pressing, which is used to attach the films to each other and the substrate.
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1999:530598 CAPLUS
DN 131:159084
TI Moistureproof sheets and wood boards covered therewith
IN Nishida, Kunio; Katsuma, Yuki
PA Eidai Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11227112	A2	19990824	JP 1998-37205	19980219

AB One side of paper is laminated with 2 layers consisting of 2 resins having different m.p., where the higher-m.p. resin layer is placed to contact with paper and acts as a moistureproof layer and the lower-m.p. resin layer acts as an adhesive layer. Thus, Kraft paper was coated with molten **polypropylene** and further coated with molten polyethylene to give a moistureproof sheet. A medium-d. **fiberboard** was covered with the sheet and hot pressed to give a product showing no size change after 3 days at 40.degree. and relative humidity 90%.

L4 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1999:498092 CAPLUS
DN 131:131046
TI Composites of wastepaper and thermoplastic films with high tensile strength and manufacture thereof
IN Suga, Yoshinori
PA Mitsubishi Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11216831	A2	19990810	JP 1998-20713	19980202

AB The composites are prepd. by alternately laminating plastic films with cut paper to form **laminates** having .gtoreq.5 layers and hot-pressing the **laminates**. The composites are useful as substitutes for wood, plywood, **fiberboards**, and thermoplastics (no data). **Polypropylene** (I) film was coated with shreded paper to form a **laminate** having 57 alternate layers of I and paper and pressed 3 min at 190.degree. to give a composite with I content 27% and exhibiting bending strength 45.2 mPa, bending modulus 3020 mPa, and Rockwell hardness 90.0 and showing good water resistance and good cutting properties.

L4 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1998:256057 CAPLUS
DN 128:283836
TI Decorative boards with reduced warpage by moisture absorption and flash panels therefrom
IN Harano, Shunichi
PA Dantani Plywood Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10109380	A2	19980428	JP 1996-286021	19961007

AB The decorative boards are prepd. by bonding one side of wood boards to the moisture-impermeable polymer (A) layer of a paper **laminate** having A as the back layer and laminating the remaining side of the boards with a backing paper, and flash panels are prepd. by laminating two sides of a core material with the decorative boards using adhesives. Paper was printed on the surface, coated with a polyurethane, laminated on the back side with **polypropylene** (I) extrudate, and exposed to corona on I side to form a decorative paper. A medium-d. **fiberboard** was laminated on the surface with the decorative paper using a waterborne vinylurethane adhesive and subsequently laminated on the back side with a **laminate** of paper with I extrudate using a vinylurethane adhesive

to give a decorative board with warpage .apprx.-0.5 mm after 7 h at 25.degree. and 60% relative humidity (one side) and at 20.degree. and 90% relative humidity (remaining side). A core material was sandwiched between two of the decorative board using poly(vinyl acetate) adhesive to give a flash panel with a hollow structure.

L4 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1998:210598 CAPLUS
DN 128:271756
TI Antisoiling decorative sheets
IN Sendai, Hisami
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10086314	A2	19980407	JP 1996-269457	19960919

AB Title sheets are prepd. by decoratively treating **laminates** of thermoplastic resin sheets and crosslinked coating surface layers from compns. contg. metal chelate catalysts and acrylic resins (A) contg. silanol, epoxy, and OH groups. Coating an elec. corona-treated PET film with a soln. contg. A and a Al chelate catalyst, baking, printing the other side of the PET film with polyurethane- and vinyl acetate-vinyl chloride copolymer-contg. colored inks, covering an adhesive on the printed surface, and laminating a colored PVC sheet on the adhesive surface gave a decorative sheets, which could be bound on steel panels.

L4 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1998:55880 CAPLUS
DN 128:141809
TI Plastic surface sheets for decorative boards with improved scratch resistance and their manufacture and manufacture of decorative boards using them
IN Murakami, Hideyuki; Hori, Tetsu
PA C. I. Kasei Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10016139	A2	19980120	JP 1996-176745	19960705

AB The surface sheets are prepd. by forming a heat-resistant polymer layer (A) on one side of a polyester film, subsequently forming a UV-curable polymer layer (B) on A layer to form a **laminate** with B layer releasable from A layer on curing B layer, covering B layer with a protective film, and simultaneously removing the protective film from the **laminate** and pressing together the surface of B layer and one side of an extruded thermoplastic polymer sheet and optionally press-bonding a printed sheet to the remaining side of the thermoplastic sheet. The decorative boards are prepd. by adhering the thermoplastic layer of the surface sheet to the surface of porous wood base materials with embossed patterns, curing B layer by exposure of the layer to UV rays, and removing the polyester film and A layer from the **laminate**. The boards are useful for furniture, kitchen cabinets, and automobile parts. PET (T-92) film was coated on one side with a mixt. contg. an acrylic resin, EX 114D (curing agent), and PTC 7 (acid catalyst), cured 30 s at 130.degree. to form a heat-resistant layer, coated with Yupimer H 2000B (UV-curable resin), dried, and laminated with a colored rigid PVC sheet to give a surface sheet. An adhesive-coated embossed medium-d.

fiberboard was bonded to PVC side of the surface sheet at 90.degree. and exposed to UV rays to give a decorative board showing pencil hardness 2 H, surface luster 80%, and good scratch resistance.

L4 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1997:787567 CAPLUS
DN 128:49722
TI Water-resistant decorative wood boards with good dimensional stability
IN Todoroki, Kiichiro
PA Dantani Plywood Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09314523	A2	19971209	JP 1996-156065	19960527

AB The boards are prepd. by sandwiching oriented **polypropylene** (I) film between the surface of **fiberboards** or particleboards with d. from 0.35 g/cm3 to <0.80 g/cm3 and a decorative material. The boards are useful for walls and floors. A medium-d. **fiberboard** was coated on two sides with ethylene-vinyl acetate copolymer adhesive, laminated on two sides with oriented I film, and pressed together with a wood veneer at 110-180.degree. to give a decorative board with good dimensional stability and good resistance to water or moisture.

L4 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1997:786076 CAPLUS
DN 128:49720
TI Dimensionally stable water-resistant decorative boards
IN Kita, Kouichi
PA Dantani Plywood Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09314520	A2	19971209	JP 1996-156064	19960527

AB The boards are prepd. by laminating the surface of **fiberboards** or particleboards with d. from 0.35 g/cm3 to <0.80 g/cm3 as the base board with nonwoven fabric **laminates** or reinforced paper **laminates** contg. moisture-nonpermeable films as the middle layer and subsequently laminating the material with a decorative surface material. The boards are useful for walls and floors. A medium-d. **fiberboard** was coated on two sides with poly(vinyl acetate) adhesive, coated on two sides with poly(vinyl acetate) adhesive, sandwiched between two moisture-nonpermeable sheets [prepd. by sandwiching poly(vinylidene chloride) between two **polypropylene** nonwoven fabrics], coated on the surface with an adhesive, and pressed together with a Japnaese oak veneer at 150-180.degree. to give a water-resistant decorative board exhibiting good dimensional stability.

L4 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1997:754145 CAPLUS
DN 128:62576
TI **Laminates** of papers and hydrogenated diene polymer-based composition layers
IN Takesaki, Takayuki; Koshina, Junji
PA Japan Synthetic Rubber Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09300535	A2	19971125	JP 1996-146428	19960517

AB Title **laminates** showing improved interlayer adhesion, whose wastes can be combustible with low calorie, consist of papers and hydrogenated diene polymers optionally assocd. with polyolefins. Thus, a **fiberboard** was inserted in a mold then 30:70 mixt. of 98%-hydrogenated 90:10 butadiene-styrene copolymer and MG05DS (**polypropylene**) was subjected to injection molding onto the mold to give a triple-layer **laminate** showing destruction in peeling test.

L4 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1997:654767 CAPLUS
DN 127:264440
TI Water-resistant dimensionally stable decorative wood boards
IN Sakai, Takeshi; Todoroki, Teruichiro
PA Dantani Plywood Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09254102	A2	19970930	JP 1996-96243	19960325

AB The boards are prepd. by sandwiching hot-melt adhesive-impregnated nonwoven fabrics between the surface of wood fiber boards or particleboards having d. from 0.35 g/cm3 to <0.80 g/cm3 and the surface of decorative paper or boards. The boards are useful for wall or floor materials. A polyester nonwoven fabric was impregnated with an ethylene-vinyl acetate copolymer adhesive and a **fiberboard** (MDF), sandwiched between two of the nonwoven fabric, subsequently sandwiched between a wood board as the surface material and kraft paper as the back surface material, and pressed 1-2 min at 150-180.degree. to give a decorative board for floors.

L4 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1997:124229 CAPLUS
DN 126:132397
TI Embossed **laminates** of wood boards with plastics as decorative panels with reduced warpage and their manufacture
IN Inagami, Kazuya
PA Matsushita Electric Works Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08318597	A2	19961203	JP 1995-126818	19950525

AB The decorative panels are prepd. by laminating a wood core material (e.g., **fiberboard**, plywood, or particleboard) with an embossed plastic (e.g., PVC, **polypropylene**, or ABS) molding, and sandwiching and sandwiching the **laminate** between decorative sheets. The panels are useful as building materials and in furniture (no data).

L4 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1993:193257 CAPLUS
DN 118:193257

TI Two-part adhesives from polyurethanes having hydrophilic groups
IN Torii, Kousuke; Mori, Masahito; Okamoto, Hirokazu
PA Sunstar Engineering Inc., Japan
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 505986	A2	19920930	EP 1992-105059	19920324
	EP 505986	A3	19930113		
	R: DE, FR, GB				
	JP 05112766	A2	19930507	JP 1992-98766	19920324
	JP 3317407	B2	20020826		
PRAI	JP 1991-86055	A	19910325		

OS MARPAT 118:193257
AB Adhesives for bonding flexible PVC to polyolefin-impregnated wood fiber composites contain products of polyisocyanates, satd. polyester polyols, and compds. having hydrophilic and .gtoreq.2 NCO-reactive groups and optionally, urethane rubber in 1 component and polyisocyanates in the curing component. Thus, Me2CO contg. Desmocoll 500 (urethane rubber) 100, 2:4.5:20:100 (wt. ratio) ethylene glycol (I)-2,2-dimethylolpropionic acid-HDI-poly(hexamethylene adipate) (II) reaction product (III) 50, and Desmodur R (triphenylmethane triisocyanate) 50 g was sprayed on **polypropylene**-impregnated wood fiber sheet pressed to a flexible PVC sheet to give a laminated with adhesion strength 2.2 kg/25 mm (cohesive failure), compared with 0.9 (adhesive failure) for a similar **laminate** contg. I-HDI-II reaction product instead of III in the adhesive.

L4 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1986:562289 CAPLUS
DN 105:162289
TI Masking film and preparation of photocured printing plate
IN Omura, Toshio; Kitamura, Minoru
PA Sekisui Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61061162	A2	19860328	JP 1984-183095	19840831

AB An opaque masking film having .gtoreq.2 laminated and releasable opaque layers is claimed. The claimed method involves cutting and removal of the opaque layers from the film to obtain a mask having a pattern of desired shape and varying deg. of transmittancy, laminating the masking material onto a neg. photosensitive film, exposure for selective curing of the film, relief exposure from the film side to cure the pos. parts of the film, forming a relief pattern bonded to the support, and removal of the uncured parts of of the film. The material and method enable formation of complex multiple patterns by using a single exposure. Thus, a masking material was prepd. by coating both sides of a polyester film (transmittance at 300-400 nm 70%) with a mixt. of 100 parts PMMA and 0.5 part 2-(2-hydroxy-5-methylphenyl)benzotriazole to form 2 20-.mu. layers. The absorbance of the mask in the 300-400 nm region was 99.5%. The masking layers were cut and removed as desired, to form a mask of a pattern having 2 different levels of absorption. A neg. film placed on a glass plate was successively laminated with a releasable **polypropylene** cover film, a liq. photocurable polyamide layer, a polyester base film, and then with the patterned masking film. The **laminate** was irradiated from the mask side by UV and then from the

glass plate side. The masking film, glass plate, neg. film, and cover film were successively removed in this order. After mech. removal of uncured parts the material was postexposed while being immersed in surfactant-contg. water. Printing by using the obtained printing plate on a corrugated **fiberboard** produced clear prints.

L4 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1983:507002 CAPLUS
DN 99:107002
TI Multilayer fiber mat
IN Kiss, Guenter
PA Fed. Rep. Ger.
SO Fr. Demande, 17 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2513939	A1	19830408	FR 1982-16459	19820930
	FR 2513939	B1	19850705		
	DE 3233385	A1	19830428	DE 1982-3233385	19820906
	DE 3233385	C2	19840517		
PRAI	DE 1981-3139854		19811002		
	DE 1982-3233385		19820906		

AB **Fiberboards**, useful for molding into complex shapes, comprise wood-fiber center layers contg. a small amt. of synthetic fibers arranged in the center and a thermoplastic binder and 2 other layers contg. 10-30% of the total amt. of wood fibers in the boards and .gtoreq.1 thermosetting resin moldable in a press at 170-210.degree.. Thus, a center layer contg. wood fibers (40-55% with length >2000 .mu., 15-20% with length 1000-2000 .mu., 15-20% with length 500-1000 .mu., and 30-50% with length <500 .mu.) 57, bitumen (HVB 95/105) 7, **polypropylene** fibers 3.5, latex 1.5, and phenolic resin 1.05% was laminated at 195.degree. to 2 outer layers contg. wood fibers (length 3-8 mm) 22.58, bitumen 2.55, phenolic resin 0.38, Acronal 12DE [86923-02-6] (a polyacrylate) 3.78, carbon black 0.225, melamine resin 0.45, and wax 0.045% to give a sandwich **laminate fiberboard** contg. 15% fibers in the outer 2 layers and with the thickness of the outer layers being 30% of the thickness of the center layer. This sandwich **fiberboard** exhibited dry flexural strength 6000 N/cm2, water absorption 25% after 24 h, swelling 20% after 24 h, and d. 1.05 g/cm3.

L4 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1980:216426 CAPLUS
DN 92:216426
TI Adhesion
IN Takano, Kenichi; Suzuki, Keisaku
PA Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54106545	A2	19790821	JP 1978-13702	19780209
	JP 62009634	B4	19870302		

AB Adhesives such as acrylic acid-Me acrylate copolymer ammonium salt (I), poly(vinyl alc.), etc. were sprayed with a soln. contg. a hardening agent such as **polypropylene** glycol diglycidyl ether (II), a melamine resin, etc. and used to bond materials for automobile ceilings and shoes. Thus, Me acrylate 37.5, acrylic acid 12.5, iso-PrOH 50, and AIBN 0.1 part were heated at reflux for 7 h, adjusted to pH 7.4 with aq. NH3, dild. with

water to give a I soln. contg. 30% solids, coated on release paper, transferred to a polyurethane foam, sprayed with a soln. contg. water 70, iso-PrOH 30, and II 1 part, bonded to a resin board at 130.degree. (20 kg/cm2), and molded to prep. an automobile ceiling.

L4 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1975:607800 CAPLUS
DN 83:207800
TI Laminating wax composition
IN Hollstein, Elmer J.
PA Sun Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3907735	A	19750923	US 1970-68801	19700901
PRAI	US 1966-558466		19660617		
	US 1968-706738		19680116		

AB Petroleum waxes contg. 2.5-10.0% atactic 26.2:73.8 ethylene-propylene block copolymer (I) [9010-79-1] were laminated with glassine paper to prep. water-resistant **fiberboard**. The waxes contg. I had higher viscosity and better adhesion to paper, compared with waxes contg. atactic **polypropylene**.

L4 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2002 ACS
AN 1975:460879 CAPLUS
DN 83:60879
TI Lamination of building materials
IN Wurmb, Rolf; Welz, Martin
PA BASF A.-G.
SO Ger. Offen., 7 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2311128	A1	19740912	DE 1973-2311128	19730307
	DE 2311128	C2	19821216		

AB Pairs of urethane foam plates, glass fiber-reinforced and unsatd. polyester plates, and **fiberboards** were bonded to one another by a hot-melt adhesivefrom a glass fiber-reinforced polyolefin, i.e. polyethylene (I) and **polypropylene** [9003-07-0], heated to temps. above its m.p. Thus, two 30 mm thick polyurethane foam plates were laminated by an intermediate 30 mm thick, glass fiber mat(25%)-reinforced I sheet (heated at 230.degree.) and pressing together.

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	86.76	86.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-21.06	-21.06

STN INTERNATIONAL LOGOFF AT 13:24:56 ON 22 NOV 2002